

## Claims

1. A nip roll of a paper or board machine, which roll is a heatable roll manufactured of steel, characterized in that the thermal shock resistance of the roll is over  $6000 \text{ W/m}^2$ .  
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2. A roll according to claim 1, characterized in that the roll has good strength properties; tensile strength over 1000 MPa and a particularly high resistance against sudden thermal stresses, elongation at fracture over 7 % and dynamic ductility over 20 J, good wear resistance properties, surface hardness over 400 HV<sub>20</sub>.  
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3. A roll according to claim 1, characterized in that the material of the roll is quenched and tempered steel.  
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4. A roll according to claim 1, characterized in that the surface of the roll has been hard coated to increase wear resistance.
5. A roll according to claim 1, characterized in that the surface of the roll has been heat treated, preferably induction hardened, to increase wear resistance.  
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6. A roll according to claim 4 or 5, characterized in that the tempering steel is at a basic hardness of about 250 HV<sub>20</sub> or in the quenching and tempering at a hardness of over 400 HV<sub>20</sub>.  
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7. A roll according to claim 1, characterized in that the shell of the roll comprises two or more different materials.
8. A roll according to claim 1, characterized in that the roll is a roll of a long nip calender.  
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